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Relevance scale ☐ ☐ ☐ ☐ ☐**1** [The hierarchical task graph and its use in auto-scheduling](#)

Constantine D. Polychronopoulos

June 1991 **Proceedings of the 5th international conference on Supercomputing**Full text available: [pdf\(1.24 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**2** [MAGELLAN: multiway hardware-software partitioning and scheduling for latency minimization of hierarchical control-dataflow task graphs](#)

Karam S. Chatha, Ranga Vemuri

April 2001 **Proceedings of the ninth international symposium on Hardware/software codesign**Full text available: [pdf\(522.98 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The paper presents MAGELLAN, a heuristic technique for mapping hierarchical control-dataflow task graph specifications on heterogeneous architecture templates. The architecture can consist of multiple hardware and software processing elements as specified by the user. The objective of the technique is to minimize the worst case latency of the task graph subject to the area constraints on the architecture. The technique uses an iterative approach consisting of closely linked hardware-software ...

3 [Low level scheduling using the hierarchical task graph](#)

David R. Wallace

August 1992 **Proceedings of the 6th international conference on Supercomputing**Full text available: [pdf\(971.67 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper introduces a new efficient instruction scheduling algorithm that can schedule across basic blocks. Scheduling globally, across basic blocks, is done by using an extension of the control flow graph (CFG) that combines both data and control dependence constraints. It organizes control flow into a hierarchy of dags and includes dataflow edges that cross basic blocks. We assume a type of extended CFG called the hierarchical task graph (HTG). Previously, the HTG has been used to descr ...

4 [Graph models for reachability analysis of concurrent programs](#)

Mauro Pezzè, Richard N. Taylor, Michal Young

April 1995 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 4 Issue 2

Full text available:  [pdf\(3.00 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The problem of analyzing concurrent systems has been investigated by many researchers, and several solutions have been proposed. Among the proposed techniques, reachability analysis—systematic enumeration of reachable states in a finite-state model—is attractive because it is conceptually simple and relatively straightforward to automate and can be used in conjunction with model-checking procedures to check for application-specific as well as general properties. This article sho ...

Keywords: Ada tasking, process algebra, static analysis

5 [Library support for hierarchical multi-processor tasks](#)

Thomas Rauber, Gudula Rünger

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing**

Full text available:  [pdf\(132.76 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The paper considers the modular programming with hierarchically structured multi-processor tasks on top of SPMD tasks for distributed memory machines. The parallel execution requires a corresponding decomposition of the set of processors into a hierarchical group structure onto which the tasks are mapped. This results in a multi-level group SPMD computation model with varying processor group structures. The advantage of this kind of mixed task and data parallelism is a potential to reduce the co ...

Keywords: distributed memory, hierarchical decomposition of processor sets, library support, mixed task and data parallelism, multilevel group SPMD, multiprocessor tasks

6 [Adaptive Teamwork Coordination Using Graph Matching over Hierarchical Intentional Structures](#)

Susannah Soon, Adrian Pearce, Max Noble

July 2004 **Proceedings of the Third International Joint Conference on Autonomous Agents and Multiagent Systems - Volume 1**

Full text available:  [pdf\(247.21 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

Many existing teamwork coordination approaches recognise team intention by using communications, and/or by identifying plan execution through observing agent actions. However, problems may arise when such information is unavailable, or when agents are not observable at runtime. This paper presents a new agent coordination strategy, called Rolegraphs, that represents and recognises team intentions without requiring full knowledge of plans, or complete observations. The strategy relies on the role ...

7 [Parallel program performance prediction using deterministic task graph analysis](#)

Vikram S. Adve, Mary K. Vernon

February 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 1

Full text available:  [pdf\(576.29 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this article, we consider analytical techniques for predicting detailed performance characteristics of a single shared memory parallel program for a particular input. Analytical models for parallel programs have been successful at providing simple qualitative insights and bounds on program scalability, but have been less successful in practice for providing detailed insights and metrics for program performance (leaving these to measurement or simulation). We develop a conceptually simple mode ...

Keywords: Analytical model, deterministic model, parallel program performance prediction, queueing network, shared memory, task graph, task scheduling

8 Microarchitecture support for dynamic scheduling of acyclic task graphs

Carl J. Beckmann, Constantine D. Polychronopoulos

December 1992 **ACM SIGMICRO Newsletter , Proceedings of the 25th annual international symposium on Microarchitecture**, Volume 23 Issue 1-2

Full text available:  [pdf\(1.08 MB\)](#) Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)

9 Hierarchical Scheduling and Allocation of Multirate Systems on Heterogeneous Multiprocessors

Yanbing Li, Wayne Wolf

March 1997 **Proceedings of the 1997 European conference on Design and Test**

Full text available:  [pdf\(760.14 KB\)](#) Additional Information: [full citation](#), [abstract](#)
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This paper describes new algorithms for system-level software synthesis, namely the scheduling and allocation of a set of complex tasks running at multiple rates on a heterogeneous multiprocessor. The tasks may have precedence constraints within them. The multiprocessor may be composed of both programmable and fixed-function processing elements and may have arbitrary interconnect topology. Our hierarchical algorithm takes advantage of the hierarchical structure of the system's task graph to hier ...

Keywords: processor scheduling, hierarchical scheduling, hierarchical allocation, multirate systems, heterogeneous multiprocessors, system-level software synthesis, precedence constraints, fixed-function processing elements, programmable processing elements, arbitrary interconnect topology, task graph, hard real-time constraints, multimedia

10 Extracting task-level parallelism

Milind Girkar, Constantine D. Polychronopoulos

July 1995 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 17 Issue 4

Full text available:  [pdf\(1.92 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Automatic detection of task-level parallelism (also referred to as functional, DAG, unstructured, or thread parallelism) at various levels of program granularity is becoming increasingly important for parallelizing and back-end compilers. Parallelizing compilers detect iteration-level or coarser granularity parallelism which is suitable for parallel computers; detection of parallelism at the statement-or operation-level is essential for most modern microprocessors, includin ...

Keywords: code generation, control and data dependence, parallelizing compilers, synchronization

11 A comparison of set-based and graph-based visualisations of overlapping classification hierarchies

Martin Graham, Jessie B. Kennedy, Chris Hand

May 2000 **Proceedings of the working conference on Advanced visual interfaces**

Full text available:  [pdf\(1.58 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)

The visualisation of hierarchical information sets has been a staple of Information

Visualisation since the field came into being in the early 1990's. However, at present, support for visualising the correlations between multiple, overlapping sets of hierarchical information has been lacking. This is despite the realisation that for certain tasks this information is as important as the information that forms the individual hierarchies. In response to this, we have produced two early visuali ...

Keywords: authors kit, conference publications, guides, instructions

12 Dynamic task-based anycasting in mobile ad hoc networks

Prithwish Basu, Wang Ke, Thomas D. C. Little

October 2003 **Mobile Networks and Applications**, Volume 8 Issue 5

Full text available:  [pdf\(518.68 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Mobile ad hoc networks (MANETs) have received significant attention in the recent past owing to the proliferation in the numbers of tetherless portable devices, and rapid growth in popularity of wireless networking. Most of the MANET research community has remained focused on developing lower layer mechanisms such as channel access and routing for making MANETs operational. However, little focus has been applied on higher layer issues, such as application modeling in dynamic MANET environments. ...

Keywords: anycasting, device/service discovery, distributed application execution, mobile ad hoc networks, task graphs

13 Power and energy: A hierarchical approach for energy efficient application design using heterogeneous embedded systems

Sumit Mohanty, Viktor K. Prasanna

October 2003 **Proceedings of the 2003 international conference on Compilers, architectures and synthesis for embedded systems**

Full text available:  [pdf\(399.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Several features such as reconfiguration, voltage and frequency scaling, low-power operating states, duty-cycling, etc. are exploited for latency and energy efficient application design using heterogeneous embedded systems. However, more choices during application design results in a large design space that must be traversed efficiently. In this paper, we propose a hierarchical methodology that integrates optimization heuristics, high-level performance estimators, and low-level simulators to ena ...

Keywords: design space exploration, energy efficiency, heterogeneous embedded systems, performance estimation

14 Hierarchical multi-agent reinforcement learning

Rajbala Makar, Sridhar Mahadevan, Mohammad Ghavamzadeh

May 2001 **Proceedings of the fifth international conference on Autonomous agents**

Full text available:  [pdf\(278.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


In this paper we investigate the use of hierarchical reinforcement learning to speed up the acquisition of cooperative multi-agent tasks. We extend the MAXQ framework to the multi-agent case. Each agent uses the same MAXQ hierarchy to decompose a task into sub-tasks. Learning is decentralized, with each agent learning three interrelated skills: how to perform subtasks, which order to do them in, and how to coordinate with other agents. Coordination skills among agents are learned by using j ...

15 Hierarchical optimization of optimal path finding for transportation applications

Ning Jing, Yun-Wu Huang, Elke A. Rundensteiner

November 1996 **Proceedings of the fifth international conference on Information and knowledge management**Full text available:  [pdf\(847.96 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**16 Learning to Communicate and Act Using Hierarchical Reinforcement Learning**


Mohammad Ghavamzadeh, Sridhar Mahadevan

July 2004 **Proceedings of the Third International Joint Conference on Autonomous Agents and Multiagent Systems - Volume 3**Full text available:  [pdf\(249.15 KB\)](#) Additional Information: [full citation](#), [abstract](#)

In this paper, we address the issue of rational communication behavior among autonomous agents. The goal is for agents to learn a policy to optimize the communication needed for proper coordination, given the communication cost. We extend our previously reported cooperative hierarchical reinforcement learning (HRL) algorithm to include communication decisions and propose a new multiagent HRL algorithm, called COM-Cooperative HRL. In this algorithm, we define cooperative subtasks to be those subtasks ...

17 Navigating hierarchically clustered networks through fisheye and full-zoom methods

Doug Schaffer, Zhengping Zuo, Saul Greenberg, Lyn Bartram, John Dill, Shelli Dubs, Mark Roseman

June 1996 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 3 Issue 2Full text available:  [pdf\(305.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Many information structures are represented as two-dimensional networks (connected graphs) of links and nodes. Because these networks tend to be large and quite complex, people often prefer to view part or all of the network at varying levels of detail. Hierarchical clustering provides a framework for viewing the network at different levels of detail by superimposing a hierarchy on it. Nodes are grouped into clusters, and clusters are themselves placed into other clusters. Us ...

Keywords: data acquisition, fisheye views, hierarchically clustered graphs, information visualization, supervisory control

18 Performance-constrained hierarchical pipelining for behaviors, loops, and operations

Smita Bakshi, Daniel D. Gajski

January 2001 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 6 Issue 1Full text available:  [pdf\(192.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Behavioral specifications of DSP systems generally contain a number of nested loops. In order to obtain high data rates for such systems, it is necessary to pipeline the system within the behavior, within the loop bodies, and also within the operations. In order to hierarchically pipeline a performance-constrained system, an important step consists of distributing the performance constraint among the loops in such a manner that the constraint is satisfied and design cost is minimized. This ...

Keywords: DSP (digital signal processing) systems, component selection, hierarchical pipelining, loop pipelining, pipelined systems, scheduling

19 Session 5A: Embedded tutorial: embedded software and systems: Low power system

scheduling and synthesis

Niraj K. Jha

November 2001 **Proceedings of the 2001 IEEE/ACM international conference on Computer-aided design**Full text available:  [pdf\(168.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many scheduling techniques have been presented recently which exploit dynamic voltage scaling (DVS) and dynamic power management (DPM) for both uniprocessors and distributed systems, as well as both real-time and non-real-time systems. While such techniques are power-aware and aim at extending battery lifetimes for portable systems, they need to be augmented to make them battery-aware as well. We will survey such power-aware and battery-aware scheduling algorithms. Also, system synthesis algorit ...

20 Efficient scheduling of conditional behaviors for high-level synthesis

Apostolos A. Kountouris, Christophe Wolinski

July 2002 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 7 Issue 3Full text available:  [pdf\(1.50 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As hardware designs get increasingly complex and time-to-market constraints get tighter there is strong motivation for high-level synthesis (HLS). HLS must efficiently handle both dataflow-dominated and controlflow-dominated designs as well as designs of a mixed nature. In the past efficient tools for the former type have been developed but so far HLS of conditional behaviors lags behind. To bridge this gap an efficient scheduling heuristic for conditional behaviors is presented. Our heuristic a ...

Keywords: Design automation, conditional behavior, high level synthesis (HLS), scheduling

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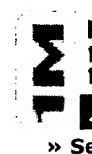
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Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactions on, Volume: 17, Issue: 10, Oct. 1998

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